

TITLE RANDOM NUMBER READER TEST FOR SYSTEM EXERCISER
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 /DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASS,
 /EARL L. BOUSE
 /EBREL
 /REV, DATE 7-27-71

700101 A RSF=700101
 700102 A RCF=700102
 700104 A RSA=700104
 700112 A RRB=700112
 700144 A RSB=700144
 705512 A RPL=705512
 707764 A EBA=707764
 707702 A EEM=707702

00000 R 600010 A UQDSW 600010
 00001 R 000000 A 0
 00002 R 000000 A 0
 00003 R 000000 A 0
 00004 R 000111 R ,DSA PSERV
 00005 R 000032 R ,DSA PINIT
 00006 R 220422 A ,SIXBT ,RDRST
 00007 R 242324 A
 00010 R 000020 A 20
 00011 R A ,BLOCK 7

/I/O DEVICE WITH API

/MASK FOR CHAIN MODE

00020 R 000000 A SYSERR 0
 00021 R 000000 A 0
 00022 R 000000 A ERCODE 0
 00023 R 000000 A 0
 00024 R 000000 A 0
 00025 R 000000 A 0
 00026 R 000000 A 0
 00027 R 000000 A 0
 00030 R 000000 A 0
 00031 R 000000 A 0

/ERROR INDICATOR
 /WORD COUNT FOR DATA WORDS
 /ERROR CODE
 /
 /THE SEVEN LOCATIONS
 /FOLLOWING THE ERROR CODE
 /ARE FOR DATA,

,EJECT

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/AC SWITCH 13 INHIBITS THE READER TEST
/THE RANDOM NUMBER READER TEST IS RUN USING A TAPE PUNCHED BY THE
/RANDOM NUMBER PUNCH TEST, THE TAPE IS READ AT BOTH FULL SPEED AND
/AT RANDOM STALL INTERVALS, IF A READ ERROR IS ENCOUNTERED IT IS TYP-
/ED OUT AND A STALL IS SETUP ALLOWING THE OPERATOR TO REMOVE THE
/TAPE AND VERIFY IF IT WAS A READ OR A PUNCH ERROR, OR THE ERROR MAY
/BE IGNORED AND THE TEST WILL RESUME AFTER THE STALL DELAY, IF THE TAPE
/IS REMOVED, IT MUST BE RELOADED,
/FOUR (4) POSSIBLE READER ERRORS MAY OCCUR;
/ERROR CODE:
/      1) NO TAPE IN READER
/      2) RSF SKIPPED WITH THE IORS BIT CLEAR
/      3) ILL API INTERRUPT, API INTERRUPTED WITH THE READ FLAG CLEAR
/      4) READ DATA ERROR;
/EXAMPLE:
/
/  TEST   TST NO,  COLUMNS READ   READ MODE   GOOD DATA   READ DATA
/
/  RDRST  000004   010231 (8)      700112      573452      573572
/           ,EJECT

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/INITIALIZE THE READER TEST

00032 R 000000 A	PINIT	0	
00033 R 707764 A		EBA	
00034 R 707702 A		EEM	
00035 R 200032 R		LAC	PINIT
00036 R 040111 R		DAC	PSERV
00037 R 140020 R		DZM	SYSERR
00040 R 140021 R		DZM	ERCODE=1
00041 R 140022 R		DZM	ERCODE
00042 R 140510 R		DZM	RMODE
00043 R 200522 R		LAC	(PSERA
00044 R 040124 R		DAC	DSTSW1
00045 R 200523 R		LAC	(777000
00046 R 040502 R		DAC	RANSTL
00047 R 200524 R		LAC	(774000
00050 R 040504 R		DAC	COLCNT
00051 R 140505 R		DZM	RCNT
00052 R 140512 R		DZM	ERFLAG
00053 R 140515 R		DZM	FLGDRV
00054 R 140507 R		DZM	RDCHK
00055 R 200525 R		LAC	(731420
00056 R 040476 R		DAC	RANA
00057 R 040500 R		DAC	RANX
00060 R 200526 R		LAC	(015610
00061 R 040477 R		DAC	RANB
00062 R 040501 R		DAC	RANY
00063 R 200521 R		LAC	WAIT
00064 R 540527 R		SAD	(=7
00065 R 100102 R		JMS	PINIT2
00066 R 700314 A		IORS	
00067 R 500530 R		AND	(1000
00070 R 741200 A		SNA	
00071 R 600075 R		JMP	PINIT1
00072 R 777771 A	EXTPNT	LAW	=7
00073 R 040020 R		DAC	SYSERR
00074 R 620032 R		JMP*	PINIT
00075 R 740000 A	PINIT1	NOP	
00076 R 140506 R		DZM	WAIT1
00077 R 100444 R		JMS	HOLD
00100 R 700104 A		RSA	
00101 R 620032 R		JMP*	PINIT
00102 R 000000 A	PINIT2	0	
00103 R 700314 A		IORS	
00104 R 500530 R		AND	(1000
00105 R 741200 A		SNA	
00106 R 600072 R		JMP	EXTPNT
00107 R 140521 R		DZM	WAIT
00110 R 620102 R		JMP*	PINIT2
		EJECT	

/ERROR INDICATOR

/WORD COUNT

/ERROR CODE

/SET READ MODE ALPHA

/DESTINATION SWITCH

/1ST RANDOM STALL COUNT

/FULL SPEED READ COUNTER

/SET NO OF COLUMNS TO READ

/SWITCH FOR ERROR DETECTOR

/INITIALIZE RANDOM NO. A

/INITIALIZE RANDOM NO. B

/WAITING FOR NOTAPE FLAG?

/YES, SEE IF NOW SET.

/TEST FOR READER NO TAPE

/TAPE OK, READ

/INDICATES TO MONITOR TO EXIT, DO NOT

/TYPE AN ERROR AND ENTER AGAIN VIA PINIT

/WAIT FOR TAPE

/CHANGES TO (JMS TIMEOUT

/CLEAR THE NO TAPE SWITCH,

/EXAMINE THE HOLD SWITCH

/START THE READ

/IS NOTAPE FLAG SET?

/NO, EXIT =7

/YES, CLEAR WAIT SWITCH

/SERVICE ENTRANCE FOR THE READER TEST

00111	R	000000	A	PSERV	/		
00112	R	707764	A		EBA		
00113	R	707702	A		EEM		
00114	R	040511	R		DAC	SAVAC	/SAVE THE CONTENTS OF THE AC
00115	R	200506	R		LAC	WAIT1	
00116	R	540527	R		SAD	(=7	/WAITING FOR TAPE?
00117	R	620111	R		JMP*	PSERV	/YES,EXIT
00120	R	200515	R		LAC	FLGDRV	
00121	R	740200	A		SZA		/WERE WE READING?
00122	R	100440	R		JMS	FLAGUP	/YES,CHECK IF FINISHED
00123	R	620124	R		JMP*	DSTSW1	
00124	R	000000	A	DSTSW1	/		/=TO STALL OR NORMAL READ
00125	R	700314	A	PSERA	IORS		/IF THE READER FLAG IS NOT UP, RETURN
00126	R	040021	R		DAC	ERCODE=1	
00127	R	500530	R		AND	(1000)	/TO MONITOR WITH AC=-1
00130	R	740200	A		SZA		/IF THE FLAG IS UP, DO THE NEXT
00131	R	600267	R		JMP	NOTAPE	/OPERATION THEN EXIT WITH AC=0
00132	R	700101	A		RSF		/TEST READER FLAG
00133	R	600262	R		JMP	NOFLAG	
00134	R	200021	R		LAC	ERCODE=1	
00135	R	500531	R		AND	(200000)	/READER FLAG
00136	R	741200	A		SNA		
00137	R	600312	R		JMP	ERROR2	/RSF SKIPPED BUT STATUS BIT CLEAR
00140	R	100152	R	PSERV,1	JMS	RDTST	/READER INTERRUPT, READ DATA
00141	R	200532	R	EXIT	LAC	(JMS TIMEOUT	
00142	R	040075	R		DAC	PINIT1	
00143	R	200533	R		LAC	(700000	
00144	R	040516	R		DAC	TIME	/INITIALIZE A STALL COUNT
00145	R	705512	A		RPL		/TEST FOR API ENABLED
00146	R	751100	A		SPA,CLA		
00147	R	200511	R		LAC	SAVAC	/API ON, RESTORE THE AC
00150	R	703344	A		DBR		
00151	R	620111	R		JMP*	PSERV	
					/		
					/		
00152	R	000000	A	RDTST	/		
00153	R	100444	R		JMS	HOLD	/EXAMINE HOLD SWITCH
00154	R	700112	A		RRB		
00155	R	040474	R		DAC	DATA	/STORE READER BUFFER
00156	R	200507	R		LAC	RDCHK	
00157	R	740200	A		SZA		/HAD A SUCCESSFUL READ?
00160	R	600166	R		JMP	READ	/YES
00161	R	200474	R		LAC	DATA	/NO
00162	R	740200	A		SZA		/THIS READ OK?
00163	R	600166	R		JMP	READ	/YES, COMPARE READ DATA
00164	R	700104	A		RSA		/NO, READ THE NEXT COLUMN
00165	R	620152	R		JMP*	RDTST	
					,EJECT		

/READ SUBROUTINE

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00166 R 777777 A READ LAW =1
00167 R 040507 R DAC RDCHK /INDICATES SUCCESSFUL READ
00170 R 440505 R ISZ RCNT /COUNT COLUMNS READ
00171 R 740000 A NOP
00172 R 200505 R LAC RCNT
00173 R 540534 R SAD (030777 /FINISHED READING?
00174 R 600232 R JMP DONE /YES, EXIT
00175 R 100250 R JMS RANDOM /NO, GET RANDOM NUMBER
00176 R 040475 R DAC DATNUM
00177 R 200510 R LAC RMODE
00200 R 740200 A SZA
00201 R 600242 R JMP TRSB /DETERMINE READ MODE
00202 R 200475 R LAC DATNUM /READ MODE BINARY
00203 R 500535 R AND (377 /READ MODE ALPHA
00204 R 040475 R DAC DATNUM /MASK BITS 10=17
00205 R 540474 R SAD DATA /SAVE THE MASKED NUMBER
00206 R 741000 A SKP /COMPARE READ DATA TO RANDOM NUMBER
00207 R 100321 R JMS ERRDAT /READ IS = TO THE NUMBER
00210 R 700144 A RSB /NO, GO TO DATA ERROR
00211 R 200510 R RRET LAC RMODE /YES, READ THE NEXT COLUMN
00212 R 740001 A CMA
00213 R 040510 R DAC RMODE /COMPLIMENT THE READ MODE
00214 R 777777 A LAW =1
00215 R 040515 R DAC FLGDRV /INDICATES FLAG DRIVEN
00216 R 200001 R LAC UODSW+1
00217 R 740020 A RAR
00220 R 741400 A SZL
00221 R 620152 R JMP* RDTST
00222 R 440504 R ISZ COLCNT /COUNTER FOR FULL SPEED READ
00223 R 620152 R JMP* RDTST
00224 R 200536 R LAC (STALL
00225 R 040124 R DAC DSTSW1 /INITIALIZE THE STALL ROUTINE
00226 R 200502 R LAC RANSTL /INITIALIZE A NO STALL COUNT
00227 R 340537 R TAD (-100
00230 R 040513 R DAC NOSTALL
00231 R 620152 R JMP* RDTST
00232 R 700112 A DONE RRB
00233 R 777774 A LAW =4 /DONE, EXIT
00234 R 040020 R DAC SYSERR
00235 R 140021 R DZM SYSERR+1
00236 R 777771 A LAW =/
00237 R 040521 R DAC WAIT /SET NOTAPE SWITCH
00240 R 040506 R DAC WAIT1
00241 R 600141 R JMP EXIT
      EJECT

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/READ BINARY
/
00242 R 200475 R TRSB LAC DATNUM /GET RANDOM NUMBER
00243 R 540474 R SAD DATA /COMPARE READ TO RANDOM NUMBER
00244 R 741000 A SKP /IS READ = TO NUMBER
00245 R 100321 R JMS ERRDAT /NO, GO TO DATA ERROR
00246 R 700104 A RSA /YES, READ NEXT COLUMN
00247 R 600211 R JMP RRET
/
/
/RANDOM NUMBER SUBROUTINE, EXIT WITH NUMBER IN THE AC
/
00250 R 000000 A RANDOM 0
00251 R 754000 A CLL!CLA
00252 R 340476 R TAD RANA
00253 R 340477 R TAD RANB
00254 R 040476 R DAC RANA
00255 R 750010 A GLK
00256 R 340476 R TAD RANA
00257 R 340477 R TAD RANB
00260 R 040477 R DAC RANB
00261 R 620250 R JMP* RANDOM
/
/
/NO FLAG FROM READER, TEST THAT API IS OFF
/
00262 R 705512 A NOFLAG RPL /TEST IF API IS ON
00263 R 741100 A SPA
00264 R 600353 R JMP ERROR3 /NO READER FLAG, API INTERRUPTED
00265 R 777777 A LAW -1 /NO READER FLAG, API OFF
00266 R 620111 R JMP* PSERV /NORMAL EXIT
/
/
/ERROR 01; NO TAPE IN READER
/
00267 R 700112 A NOTAPE RRB /CLEAR THE READER FLAG
00270 R 777775 A LAW -3
00271 R 040020 R DAC SYSERR
00272 R 200540 R LAC (1 /ERROR CODE 01; NO TAPE
00273 R 040022 R DAC ERCODE
00274 R 777777 A LAW -1 /ONE DATA WORD TO BE PRINTED
00275 R 040021 R DAC ERCODE-1
00276 R 140515 R DZM FLGDRV
00277 R 200541 R LAC (EXTNTP
00300 R 040124 R DAC DSTSW1
00301 R 600141 R JMP EXIT
,EJECT

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00302 R 200020 R EXTINTP LAC SYSERR
00303 R 540542 R SAD (=3 /TYPED ERROR YET?
00304 R 600141 R JMP EXIT
00305 R 140021 R DZM SYSERR+1
00306 R 777771 A LAW =7
00307 R 040020 R DAC SYSERR
00310 R 040506 R DAC WAIT1
00311 R 600141 R JMP EXIT
/
/ERROR2 IS WHEN RSP SKIPPED BUT STATUS BIT CLEAR
/
00312 R 200543 R ERROR2 LAC (=2
00313 R 040022 R DAC ERCODE /ERROR CODE 02
00314 R 777777 A LAW =1
00315 R 040020 R DAC SYSERR
00316 R 777776 A LAW =2
00317 R 040021 R DAC ERCODE=1
00320 R 600141 R JMP EXIT
/
/
/ DATA ERROR, READ DATA IS DIFFERENT FROM EXPECTED DATA
/
00321 R 000000 A ERRDAT 0
00322 R 200544 R LAC (=4 /ERROR CODE 04; DATA ERROR
00323 R 040022 R DAC ERCODE
00324 R 777773 A LAW =5 /FIVE DATA ERRORS TO BE PRINTED
00325 R 040021 R DAC ERCODE=1
00326 R 777776 A LAW =2
00327 R 040020 R DAC SYSERR
00330 R 200505 R LAC RCNT /COLUMNS READ
00331 R 040023 R DAC ERCODE+1
00332 R 200510 R LAC RMODE /DETERMINE READ MODE
00333 R 750200 A SZA:CLA
00334 R 200545 R LAC (=40 /READ BINARY, 700144
00335 R 340546 R TAD (=700104 /READ ALPHA, 700104
00336 R 040024 R DAC ERCODE+2
00337 R 200475 R LAC DATNUM /GOOD DATA
00340 R 040025 R DAC ERCODE+3
00341 R 200474 R LAC DATA /READ DATA
00342 R 040026 R DAC ERCODE+4
00343 R 200547 R LAC (=750000
00344 R 040517 R DAC LOOP /SET UP A WAIT COUNT
00345 R 777775 A LAW =3
00346 R 040520 R DAC LOOP1
00347 R 200550 R LAC (=SRERR
00350 R 040124 R DAC DSTSW1 /SET DESTINATION SWITCH
00351 R 140515 R DZM FLGDRV /CLEAR FLAG SWITCH
00352 R 600141 R JMP EXIT
EJECT

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/ERROR3, API INTERRUPT OCCURED WITH NO READER FLAG SET

00353 R 777777 A	ERROR3	LAW	=1	/SET UP ERROR 3
00354 R 040020 R		DAC	SYSERR	
00355 R 200551 R		LAC	(3	/ERROR CODE 03; API ERROR
00356 R 040022 R		DAC	ERCODE	
00357 R 777777 A		LAW	=1	/ONE DATA WORD TO BE PRINTED
00360 R 040021 R		DAC	ERCODE=1	
00361 R 600141 R		JMP	EXIT	

/WAIT FOR ERROR TO BE TYPED, AND STALL BEFORE CONTINUING READ

00362 R 200020 R	SRVERR	LAC	SYSERR	
00363 R 540552 R		SAD	(=2	/ERROR TYPED YET?
00364 R 600141 R		JMP	EXIT	/NO,EXIT
00365 R 700314 A		IORS		/TEST FOR NO TAPE FLAG
00366 R 500530 R		AND	(1000	
00367 R 740200 A		SZA		/IS FLAG SET?
00370 R 600267 R		JMP	NOTAPE	/YES, PRINT CODE
00371 R 440517 R		ISZ	LOOP	/NO, START DELAY
00372 R 600422 R		JMP	STLEXT	/EXIT =5
00373 R 440520 R		ISZ	LOOP1	
00374 R 600422 R		JMP	STLEXT	
00375 R 200522 R		LAC	(PSERA	
00376 R 040124 R		DAC	DSTSW1	/RESET DESTINATION SWITCH
00377 R 200523 R		LAC	(777000	
00400 R 040504 R		DAC	COLCNT	/REINIT FULL SPEED READ
00401 R 100444 R		JMS	HOLD	/TEST FOR HOLD SWITCH
00402 R 620321 R		JMP*	ERRDAT	/READ NEXT COLUMN

/RANDOM STALL ROUTINE

00403 R 200515 R	STALL	LAC	FLGDRV	/FLAG DRIVEN ?
00404 R 740200 A		SZA		
00405 R 700112 A		RRB		/YES,CLEAR READER FLAG
00406 R 140515 R		DZM	FLGDRV	/NO, ENTERED SYSERR-5
00407 R 440502 R		ISZ	RANSTL	/COUNTER FOR STALL NO,
00410 R 600422 R		JMP	STLEXT	/CONTINUE STALL
00411 R 100425 R		JMS	GENRAN	/SET UP FOR NEXT STALL TIME
00412 R 040502 R		DAC	RANSTL	
00413 R 440513 R		ISZ	NOSTAL	/CHECK FOR NO STALL
00414 R 600140 R		JMP	PSERV,1	
00415 R 340553 R		TAD	(=300	
00416 R 040504 R		DAC	COLCNT	/SET UP NO STALL COUNT
00417 R 200522 R		LAC	(PSERA	
00420 R 040124 R		DAC	DSTSW1	/CLEAR THE STALL SWITCH
00421 R 600140 R		JMP	PSERV,1	

00422 R 777773 A	STLEXT	LAW	=5	/CONTINUE STALL
00423 R 040020 R		DAC	SYSERR	
00424 R 600141 R		JMP	EXIT	

,EJECT

/GENERATE RANDOM STALL NO.; EXIT WITH NO, IN THE AC

00425	R	000000	A	GENRAN	0	
00426	R	340500	R		TAD	RANX
00427	R	340501	R		TAD	RANY
00430	R	040500	R		DAC	RANX
00431	R	750010	A		GLK	
00432	R	340500	R		TAD	RANX
00433	R	340501	R		TAD	RANY
00434	R	040501	R		DAC	RANY
00435	R	500554	R		AND	(17
00436	R	740001	A		CMA	
00437	R	620425	R		JMP*	GENRAN

/TEST THAT THE READER HAS FINISHED READING BEFORE CONTINUING.

00440	R	000000	A	FLAGUP	0	
00441	R	700101	A		RSF	
00442	R	600262	R		JMP	NOFLAG
00443	R	620440	R		JMP*	FLAGUP

/TEST FOR READER FLAG
/READER IS NOT FINISHED
/FLAG UP, CONTINUE

/TEST AC SWITCH 13 WHICH INHIBITS THE READER TEST

00444	R	000000	A	HOLD	0	
00445	R	750004	A		LAS	
00446	R	500555	R		AND	(20
00447	R	741200	A		SNA	
00450	R	620444	R		JMP*	HOLD
00451	R	200124	R		LAC	DSTSW1
00452	R	040503	R		DAC	SAVDST
00453	R	200556	R		LAC	(HOLD,1
00454	R	040124	R		DAC	DSTSW1
00455	R	200515	R		LAC	FLGDRV
00456	R	741200	A		SNA	
00457	R	600422	R		JMP	STLEXT
00460	R	700101	A		RSF	
00461	R	600422	R		JMP	STLEXT
00462	R	140515	R		DZM	FLGDRV
00463	R	700112	A		RRB	
00464	R	600422	R		JMP	STLEXT

/AC SW 13
/IS SWITCH UP?
/NO, CONTINUE
/YES
/SAVE RETURN ADDRESS

/FLAG DRIVEN?
/NO, EXIT -5
/YES, IS READER FINISHED?
/NO

/YES, CLEAR READER FLAG
/EXIT

00465	R	200503	R	HOLD,1	LAC	SAVDST
00466	R	040124	R		DAC	DSTSW1
00467	R	600445	R		JMP	HOLD+1

/RESTORE THE RETURN ADDRESS
/RETEST SWITCH

EJECT

/WAIT FOR 10 SEC. AFTER NOTAPE FLAG IS CLEARED

00470	R	000000	A	TIMOUT	/		
00471	R	440516	R		ISZ	TIME	
00472	R	600072	R		JMP	EXTPNT	/EXIT VIA -7
00473	R	620470	R		JMP*	TIMOUT	/RESTART READ TEST

00474	R	000000	A	DATA	/	
00475	R	000000	A	DATNUM	0	
00476	R	000000	A	RANA	0	
00477	R	000000	A	RANB	0	
00500	R	000000	A	RANX	0	
00501	R	000000	A	RANY	0	
00502	R	000000	A	RANSTL	0	
00503	R	000000	A	SAVDST	0	
00504	R	000000	A	COLCNT	0	
00505	R	000000	A	RCNT	0	
00506	R	000000	A	WAIT1	0	
00507	R	000000	A	RDCHK	0	
00510	R	000000	A	RMODE	0	
00511	R	000000	A	SAVAC	0	
00512	R	000000	A	ERFLAG	0	
00513	R	000000	A	NOSTAL	0	
00514	R	000000	A	NTAPFG	0	
00515	R	000000	A	FLGDRV	0	
00516	R	000000	A	TIME	0	
00517	R	000000	A	LOOP	0	
00520	R	000000	A	LOOP1	0	
00521	R	000000	A	WAIT	0	

EJECT

000000 R .END UODSW

00522 R 000125 R *L
00523 R 777000 A *L
00524 R 774000 A *L
00525 R 731420 A *L
00526 R 015610 A *L
00527 R 777771 A *L
00530 R 001000 A *L
00531 R 200000 A *L
00532 R 100470 R *L
00533 R 700000 A *L
00534 R 030777 A *L
00535 R 000377 A *L
00536 R 000403 R *L
00537 R 777700 A *L
00540 R 000001 A *L
00541 R 000302 R *L
00542 R 777775 A *L
00543 R 000002 A *L
00544 R 000004 A *L
00545 R 000040 A *L
00546 R 700104 A *L
00547 R 750000 A *L
00550 R 000362 R *L
00551 R 000003 A *L
00552 R 777776 A *L
00553 R 777500 A *L
00554 R 000017 A *L
00555 R 000020 A *L
00556 R 000465 R *L

SIZE=00560

NO ERROR LINES

COLCNT	00504 R	DATA	00474 R	DATNUM	00475 R	DONE	00232 R
DSTSW1	00124 R	EBA	707764 A	EEM	707702 A	ERCODE	00022 R
ERFLAG	00512 R	ERRDAT	00321 R	ERROR2	00312 R	ERROR3	00353 R
EXIT	00141 R	EXTNTP	00302 R	EXTPNT	00072 R	FLAGUP	00440 R
FLGDRV	00515 R	GENRAN	00425 R	HOLD	00444 R	HOLD,1	00465 R
LOOP	00517 R	LOOP1	00520 R	NOFLAG	00262 R	NOSTAL	00513 R
NOTAPE	00267 R	NTAPFG	00514 R	PINIT	00032 R	PINIT1	00075 R
PINIT2	00102 R	PSERA	00125 R	PSErv	00111 R	PSErv,	00140 R
RANA	00476 R	RANB	00477 R	RANDOM	00250 R	RANSTL	00502 R
RANX	00500 R	RANY	00501 R	RCF	700102 A	RCNT	00505 R
RDCHK	00507 R	RDTST	00152 R	READ	00166 R	RMODE	00510 R
RPL	705512 A	RRB	700112 A	RREI	00211 R	RSA	700104 A
RSB	700144 A	RSF	700101 A	SAVAC	00511 R	SAVDST	00503 R
SRVERR	00362 R	STALL	00403 R	STLEXT	00422 R	SYSERR	00020 R
TIME	00516 R	TIMOUT	00470 R	TRSB	00242 R	UODSW	00000 R
WAIT	00521 R	WAIT1	00506 R				

PAGE 13 RDRST SRC RANDOM NUMBER READER TEST FOR SYSTEM EXERCISER

UODSW	00000 R	SYSERR	00020 R	ERCODE	00022 R	PINIT	00032 R
EXTPNT	00072 R	PINIT1	00075 R	PINIT2	00102 R	PSERV	00111 R
DSTSW1	00124 R	PSERA	00125 R	PSERV,	00140 R	EXIT	00141 R
RDTST	00152 R	READ	00166 R	RRET	00211 R	DONE	00232 R
TRSB	00242 R	RANDOM	00250 R	NOFLAG	00262 R	NOTAPE	00267 R
EXTNTP	00302 R	ERROR2	00312 R	ERRDAT	00321 R	ERROR3	00353 R
SRVERR	00362 R	STALL	00403 R	STEXT	00422 R	GENRAN	00425 R
FLAGUP	00440 R	HOLD	00444 R	HOLD,1	00465 R	TIMOUT	00470 R
DATA	00474 R	DATNUM	00475 R	RANA	00476 R	RANB	00477 R
RANX	00500 R	RANY	00501 R	RANSTL	00502 R	SAVDST	00503 R
COLCNT	00504 R	RCNT	00505 R	WAIT1	00506 R	RDCHK	00507 R
RMODE	00510 R	SAVAC	00511 R	ERFLAG	00512 R	NOSTAL	00513 R
NTAPFG	00514 R	FLGDRV	00515 R	TIME	00516 R	LOOP	00517 R
LOOP1	00520 R	WAIT	00521 R	RSF	700101 A	RCF	700102 A
RSA	700104 A	RRB	700112 A	RSB	700144 A	RPL	705512 A
EEM	707702 A	EBA	707764 A				